



## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

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Applicants: Peter David Davis, Matthew Alexander Naylor, Peter Thomson, Steven Albert Everett, Michael Richard Lacey Stratford and Peter Wardman

Application No.: 10/550,864                      Group: 1751

Filed (371(c) date): October 27, 2005                      Examiner: Not yet assigned

Confirmation No.: 3397

For: Bioreductively-Activated Prodrugs

CERTIFICATE OF MAILING OR TRANSMISSION	
I hereby certify that this correspondence is being deposited with the United States Postal Service with sufficient postage as First Class Mail in an envelope addressed to Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, or is being facsimile transmitted to the United States Patent and Trademark Office on:	
May 10, 2007	Rachel Wright
Date	Signature
Rachel Wright	
Typed or printed name of person signing certificate	

SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

Mail Stop Amendment  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

This Information Disclosure Statement is submitted:

- ☒ under 37 CFR 1.97(b), or  
(Within any one of the following time periods: three months of filing national application (other than a CPA) or date of entry of the national stage in an international application; or before the mailing date of a first office action on the merits in a non-provisional application, including a CPA, or a Request for Continued Examination).
- ☐ under 37 CFR 1.97(c) together with either:
- ☐ a Statement under 37 CFR 1.97(e), as checked below, or
  - ☐ a \$180.00 fee under 37 CFR 1.17(p), or  
(After the 37 CFR 1.97(b) time period, but before final action or notice of allowance, whichever occurs first)
- ☐ under 37 CFR 1.97(d) together with:
- ☐ a Statement under 37 CFR 1.97(e), as checked below, and
  - ☐ a \$180.00 fee under 37 CFR 1.17(p), or  
(Filed after final action or notice of allowance, whichever occurs first, but on or before payment of the issue fee)
- ☐ under 37 CFR 1.97(i):  
Applicant requests that the IDS and cited reference(s) be placed in the application file.  
(Filed after payment of issue fee)

Statement Under 37 CFR 1.97(e)

- ☐ Each item of information contained in this Information Disclosure Statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this Information Disclosure Statement; or
- ☐ No item of information contained in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the undersigned, after making reasonable inquiry, no item of information contained in the information disclosure statement was known to any individual designated in 37 CFR 1.56(c) more than three months prior to the filing of this Information Disclosure Statement.

## Statement Under 37 CFR 1.704(d) (Patent Term Adjustment)

*Applies to original applications (other than design) filed on or after May 29, 2000*

- ☐ Each item of information contained in the Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart application and this communication was not received by any individual designated in § 1.56(c) more than thirty days prior to the filing of the Information Disclosure Statement.
- ☒ Enclosed herewith is form PTO-1449:
  - ☒ Copies of the cited references are enclosed.
    - ☒ Copies of issued U.S. patents and published U.S. applications are not required and are not being provided.
  - ☐ Copies of the cited references are enclosed except those entered in prior application, U.S. Application No. [ ], to which priority under 35 U.S.C. 120 is claimed.
  - ☐ The listed references were cited in the enclosed International Search Report in a counterpart foreign application.
  - ☐ The "concise explanation" requirement (non-English references) for reference(s) [ ] under 37 CFR 1.98(a)(3) is satisfied by:
    - ☐ the explanation provided on the attached sheet.
    - ☐ the explanation provided in the Specification.
    - ☐ submission of the enclosed International Search Report.
    - ☐ submission of the enclosed English-language version of a foreign Search Report and/or foreign Office Action.
    - ☐ the enclosed English language abstract.

- ☐ Applicant requests that the following non-published pending applications be considered:  
(Affix a label or apply the stamp "Non-Published IDS Reference - Do Not Scan" to the front of each unpublished pending appl'n.)

Examiner's  
Initials

\_\_\_\_ U.S. Patent Application No. [ ], by [inventor(s)], filed [ ], Docket No.: [ ]  
\_\_\_\_ U.S. Patent Application No. [ ], by [inventor(s)], filed [ ], Docket No.: [ ]  
\_\_\_\_ U.S. Patent Application No. [ ], by [inventor(s)], filed [ ], Docket No.: [ ]

\_\_\_\_\_  
Examiner

\_\_\_\_\_  
Date

- ☐ A copy of each above-cited application, including the current claims, is enclosed, except any application filed on or after June 30, 2003, which has been scanned into the PTO's Image File Wrapper (IFW) system and is available to the examiner.
- ☐ A copy of each above-cited application, including the current claims, is enclosed, except those entered in prior application, U.S. Application No. [ ], to which priority under 35 U.S.C. 120 is claimed.

The Examiner is requested to return a copy of the above list of pending applications indicating which references were considered with the next office communication.

It is requested that the information disclosed herein be made of record in this application.

Method of payment:

- ☐ A check for the fee noted above is enclosed, or the fee has been included in the check with the accompanying Reply. A copy of this Statement is enclosed.
- ☐ Please charge Deposit Account 08-0380 in the amount of \$[ ]. A copy of this Statement is enclosed.
- ☒ Please charge any deficiency in fees and credit any overpayment to Deposit Account No. 08-0380.

Respectfully submitted,

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Dated:


MAY 10, 2007

PTO-1449 REPRODUCED		ATTORNEY DOCKET NO. 3963.1001-000		APPLICATION NO. 10/550,864	
<b>SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT IN AN APPLICATION</b>  <b>May 10, 2007</b>		FIRST NAMED INVENTOR Peter David Davis		371(c) FILING DATE October 27, 2005	
		EXAMINER Not yet assigned		CONFIRMATION NO. 3397	
(Use several sheets if necessary)				GROUP 1751	

### U.S. PATENT DOCUMENTS

EXAM- -INER INI- TIAL	REF. NO.	DOCUMENT NUMBER Number-Kind Code (if known)	ISSUE DATE / PUBLICATION DATE MM-DD-YYYY	NAME OF PATENTEE OR APPLICANT OF CITED DOCUMENT
	A1	5,633,158	05-27-1997	Anlezark <i>et al.</i>
	A2	5,977,065	11-02-1999	Anlezark <i>et al.</i>
	A3			
	A4			
	A5			
	A6			
	A7			
	A8			
	A9			
	A10			
	A11			
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	A20			

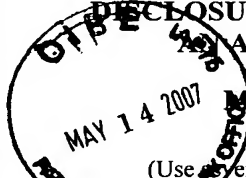
EXAMINER	DATE CONSIDERED
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May 10, 2007 (use several sheets if necessary)				GROUP 1751	

## FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER Country Code-Number-Kind Code (if known)	DATE MM-DD-YYYY	NAME OF PATENTEE OR APPLICANT OF CITED DOCUMENT	TRANSLATION YES	NO
	B4	WO 00/64864 A1	11-02-2000	Cancer Research Campaign Technology Limited		
	B5	WO 00/47725 A1	08-17-2000	Microbiological Research Authority		
	B6					
	B7					
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PTO-1449 REPRODUCED		ATTORNEY DOCKET NO. 3963.1001-000		APPLICATION NO. 10/550,864	
<b>SUPPLEMENTAL INFORMATION</b> <b>DISCLOSURE STATEMENT IN</b> <b>APPLICATION</b> 		FIRST NAMED INVENTOR Peter David Davis		371(c) FILING DATE October 27, 2005	
		EXAMINER Not yet assigned		CONFIRMATION NO. 3397	
				GROUP 1751	

(Use several sheets if necessary)

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)		
C1	Kennedy, Katherine A., <i>et al.</i> , "Preferential Activation of Mitomycin C to Cytotoxic Metabolites by Hypoxic Tumor Cells", <i>Cancer Research</i> , 40:2356-2360 (1980).	
C2	Denny, William A., "The Role of Hypoxia-Activated Prodrugs in Cancer Therapy", <i>The Lancet Oncology</i> , 1:25-29 (2000).	
C3	Rothschild, Bruce M., <i>et al.</i> , "Pathogenesis of Rheumatoid Arthritis: A Vascular Hypothesis", <i>Seminars in Arthritis and Rheumatism</i> , 12(1):11-31 (1982).	
C4	Dvorak, Harold F., <i>et al.</i> , "Vascular Permeability Factor/Vascular Endothelial Growth Factor: An Important Mediator of Angiogenesis in Malignancy and Inflammation", <i>Int. Arch. Allergy Immunol.</i> , 107:233-235 (1995).	
C5	Das, Arup, <i>et al.</i> , "Retinal and Choroidal Angiogenesis: Pathophysiology and Strategies for Inhibition", <i>Progress in Retinal and Eye Research</i> , 22:721-748 (2003).	
C6	Jensen, P.O., <i>et al.</i> , "Increased Cellular Hypoxia and Reduced Proliferation of both Normal and Leukaemic Cells During Progression of Acute Myeloid Leukaemia in Rats", <i>Cell Prolif.</i> , 33:381-395 (2000).	
C7	Naylor, M. A., <i>et al.</i> , "Recent Advances in Bioreductive Drug Targeting", <i>Mini Reviews in Medicinal Chemistry</i> , 1:17-29 (2001).	
C8	Tercel, Moana, <i>et al.</i> , "Hypoxia-Selective Antitumor Agents. 16. Nitroarylmethyl Quaternary Salts as Bioreductive Prodrugs of the Alkylating Agent Mechlorethamine", <i>J. Med. Chem.</i> , 44:3511-3522 (2001).	
C9	Damen, Eric W.P., <i>et al.</i> , "Synthesis of Novel Paclitaxel Prodrugs Designed for Bioreductive Activation in Hypoxic Tumour Tissue", <i>Bioorganic &amp; Medicinal Chemistry</i> , 10:71-77 (2002).	
C10	Papot, S., <i>et al.</i> , "Design of Selectively Activated Anticancer Prodrugs: Elimination and Cyclization Strategies", <i>Curr. Med. Chem. - Anti-Cancer Agents</i> , 2:155-185 (2002).	
C11	Lin, Tai-Shun, <i>et al.</i> , "(o- and p-Nitrobenzyloxycarbonyl)-5-fluorouracil Derivatives as Potential Conjugated Bioreductive Alkylating Agents", <i>J. Med. Chem.</i> , 29:84-89 (1986).	
C12	Flader, Carolee, <i>et al.</i> , "Development of Novel Quinone Phosphorodiamidate Prodrugs Targeted to DT-Diaphorase", <i>J. Med. Chem.</i> , 43:3157-3167 (2000).	
C13	Borch, Richard F., <i>et al.</i> , "Antitumor Activity and Toxicity of Novel Nitroheterocyclic Phosphoramidates", <i>J. Med. Chem.</i> , 44:74-77 (2001).	
C14	Skelly, Jane V., <i>et al.</i> , "Aerobic Nitroreduction by Flavoproteins: Enzyme Structure, Mechanisms, and Role in Cancer Chemotherapy", <i>Mini Reviews in Medicinal Chemistry</i> , 1:293-306 (2001).	

EXAMINER	DATE CONSIDERED
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